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AMENDMENTS

IN THE CLAIMS

Please cancel claims 1-27, 42, 43, 48-66, 68-103 and 108, and amend claims 104, 105, 107 and 109-115. The claims and their current status are provided below.

1.-103. (Cancelled)

104. (Currently Amended) An anastomosis connector system for connecting a tubular graft to a blood vessel ~~or hollow body organ~~ comprising:

a catheter; and

a connector sized for delivery through the catheter, the connector comprising: an annular structure configured for positioning within the tubular graft and for providing fluid communication between the tubular graft and the vessel ~~or organ~~, and

at least one compressible member extending from a distal end of the annular structure, the at least one compressible member having a first segment and a second segment,

the first segment being configured to engage a first portion of interior surface of the vessel wall or organ,

the second segment being configured to engage a second portion of interior surface of the vessel wall or organ, a distal end of the second segment being attached to a distal end of the first segment, and

the compressible member being radially deformable between a reduced profile and an expanded profile, ~~the first and second segments are curved wherein the compressible member is configured to provide fluid communication between the graft and the vessel when the compressible member is in the expanded profile.~~

105. (Currently Amended) The connector system of claim 104, the connector further comprising a plurality of additional compressible members, each of the additional compressible members being radially deformable between the reduced profile and the expanded profile.

106. (Cancelled)

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107. (Currently Amended) The connector system of claim 104 wherein the compressible member expands from the reduced profile to the expanded profile upon removal of a constraining force the catheter.

108. (Cancelled).

109. (Currently Amended) The connector system of claim 104 wherein the compressible member is radially self-expanding from the first reduced profile and the expanded profile.

110. (Currently Amended) The connector system of claim 104 wherein the compressible member is comprised of a memory elastic material.

111. (Currently Amended) The connector system of claim 110 wherein the memory elastic material is selected from the group consisting of stainless steel, nickel titanium, and thermoset plastic.

112. (Currently Amended) The connector system of claim 104 wherein the expanded profile of the compressible member defines a radially enlarged profile.

113. (Currently Amended) The connector system of claim 112 wherein the radially enlarged profile is substantially circular.

114. (Currently Amended) The connector system of claim 104 wherein the expanded profile of the compressible member is configured to conform to and buttress the interior surface of the vessel wall or organ.

115. (Currently Amended) The connector system of claim 104 wherein the first and second segments define a loop configuration.